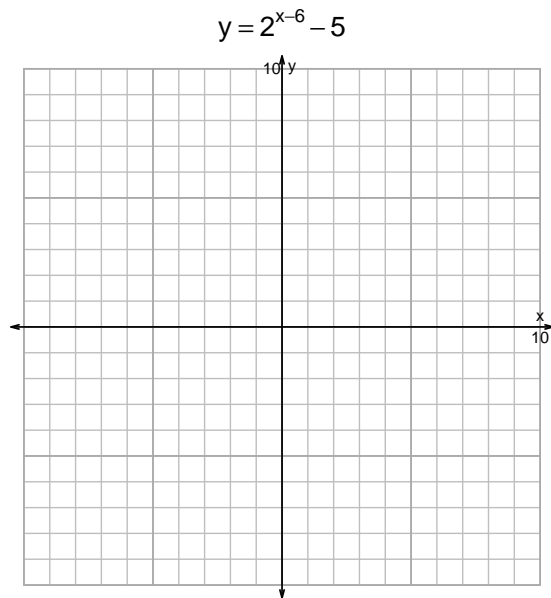
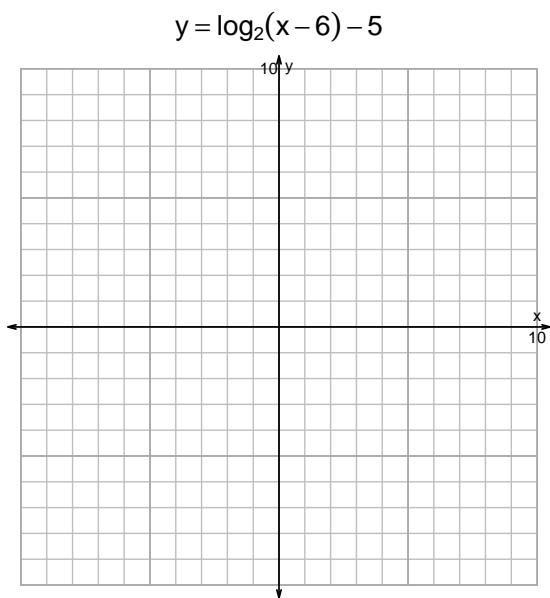


Name: _____

Date: _____

S18QUIZ: EXP LOG (EXAMPLE v8)

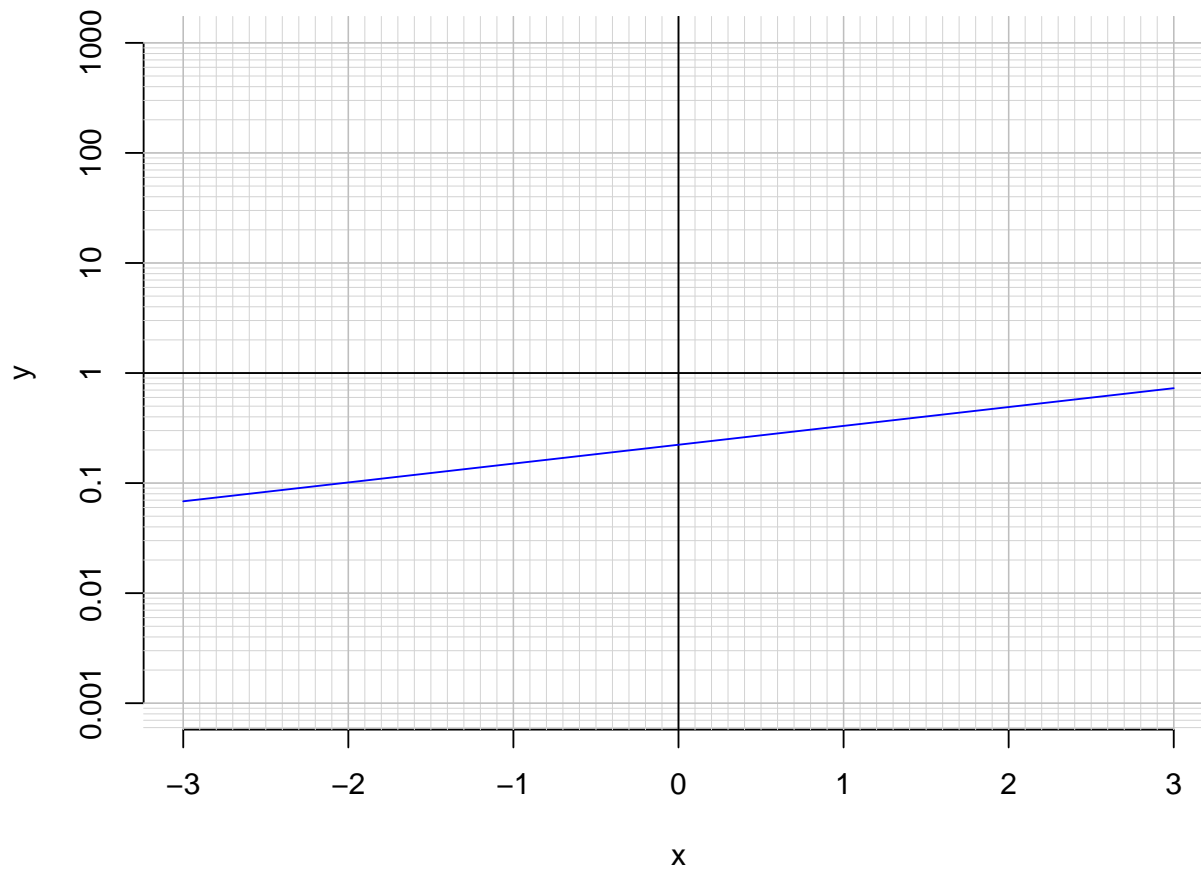
1. Graph $y = \log_2(x - 6) - 5$ and $y = 2^{x-6} - 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$19 = \left(\frac{4}{5}\right) \cdot 2^{3t/7}$$

3. An exponential function $f(x) = 0.223 \cdot e^{0.394x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(2.9)$.
- b. Express $f^{-1}(x)$, the inverse of f .
- c. Using the plot above, evaluate $f^{-1}(0.08)$.